



**OVERSIGHT REPORT
NORTH BRONSON INDUSTRIAL AREA
BRONSON, MICHIGAN**

*K.S.
3/16/01*

16 March 2001

Prepared for:

U.S. Environmental Protection Agency
Region 5
Emergency and Remedial Response Branch
77 West Jackson Boulevard
Chicago, Illinois 60604

Work Assignment No.: 031-ROBE-051C
Document Control No.: RFW031-2A-AHSJ

**OVERSIGHT OF PRE-DESIGN STUDIES WORK
NORTH BRONSON INDUSTRIAL AREA SITE
BRONSON, BRANCH COUNTY, MICHIGAN
27 FEBRUARY - 9 MARCH 2001**

This report summarizes the field oversight of pre-design studies work by ARCADIS (Geraghty and Miller) at the North Bronson Industrial Area Site, in Bronson, Michigan. A Roy F. Weston, Inc. (WESTON®) Geologist provided oversight support on 5 of the 8 possible workdays. Photodocumentation of oversight observations is attached to this report.

Field activities at the Site were performed with the purpose of addressing the requirements outlined in the Consent Decree filed in United States District Court for the Western District of Michigan, Southern Division, United States of America vs. Bronson Plating Company, et. Al., entered on 29 February 2000. The data collected during the field activities will be utilized in conjunction with data previously obtained during the Remedial Investigation (RI) to execute an appropriate Remedial Design (RD) and implement the Remedial Action (RA) for the Site, as required in the Record of Decision (ROD).

27 February 2001

Tuesday

Weather: 28° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Eric Chatterson	WESTON	Project Geologist
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II

Completed field tasks at the end of the day included the following:

Monitoring Wells Installed

- MW-29
- MW-32S
- MW-32I

Soil Borings Completed

- AGM-SB4
- AGM-SB2

Additional site concerns:

MDEQ expresses dissatisfaction pertaining to the lack of impact their XRF data was having on sample selection. MDEQ felt that a field instrument such as the XRF should be used to identify sample intervals based on the field measurements. WESTON agreed with MDEQ that the XRF was a useful screening tool, however, it's use was not in the Work Plan and that the objective of the sampling task would likely be fulfilled without using the XRF to designate samples. MDEQ indicated to ARCADIS that they would like to see some particular intervals sampled. WESTON agreed with the MDEQ that the additional samples would provide useful data. ARCADIS was informed of Weston's opinion that these additional samples may be useful but that the decision to send the sample to the lab for analysis was their choice. WESTON informed MDEQ and ARCADIS that the U.S. EPA would be informed of the MDEQ concerns pertaining to the XRF.

28 February 2001

Wednesday

Weather: 28° F and fair conditions

WESTON oversight not present - the following information was obtained from
discussions with MDEQ and ARCADIS personnel on March 1, 2001.

Mike Mueller	Boat Longyear	Driller
Randy Radke	Boat Longyear	Driller
Kevin Weise	Boat Longyear	Drillers Helper
Royce Brown	Boat Longyear	Drillers Helper
Jason Drabek	Boat Longyear	Drillers Helper

On 27 February 2001, ARCADIS organized equipment and calibrated instruments for two teams of field personnel. Air monitoring equipment included CGI/O2 and FID meters. The CGI/O2 meter was calibrated to a 50% LEL pentane source. The FID (OVA) meter was calibrated to 100-ppm methane. One team was tasked with monitoring well installation while the other team would advance soil borings. MDEQ (Joseph Walczak) was on site and monitoring soil samples using an XRF meter for field measurements of metals concentrations in soil borings.

Following the advancing of AGM-SB-6 the drill rig became stuck in the bottom of the southernmost eastern lagoon. Upon getting the rig out of the lagoon it was noted that excessive soil had coated the track of the ATV drill rig. The drill rig was then given minimal decontamination at the eastern lagoon area and then transported to the western lagoon decon pad for a thorough decontamination. Air monitoring was observed at all well/soil boring locations where WESTON oversight personnel were present. Decontamination of all reusable measuring equipment between wells was observed at the wells where oversight was present. No deficiencies were noted in regards to following the approved Work Plan.

Completed field tasks at the end of the day included the following:

Monitoring Wells Installed

- MW-355
- MW-351

Soil Borings Completed

- AGM-SB1
- AGM-SB3
- AGM-SB5
- AGM-SB6

Additional site concerns:

ARCADIS has confrontation with owner of property where MW33-S/I is proposed to be located. The property owner (Kim Eichler) confronts John Keller (ARCADIS) and informs him that he is trespassing, that he never signed an access agreement, will not sign an access agreement, and that he wants John Keeler to stay off his property. WESTON contacts the property owner in person the next day and following an explanation of proposed work and a lengthy discussion the property owner agrees to sign the access agreement.

2 March 2001

Friday

Weather: 33° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
Eric Chatterson	WESTON	Project Geologist
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II
Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper

Monitoring Wells Abandoned

- MW-1
- MW-2
- MW-3
- MW-4
- MW-5
- MW-6

Sediment Samples Collected

- SD-25
- SD-26
- SD-27

Additional site concerns:

MDEQ (Chuck Graff) calls WESTON in the evening and expresses dissatisfaction pertaining to the quality of well development by ARCADIS. This dissatisfaction focuses mainly around the lack of surging. WESTON informs MDEQ that ARCADIS will be contacted and proper well development procedures discussed. WESTON contacts John Keeler (ARCADIS) and discusses the requirements for proper well development. John Keeler states that ARCADIS will develop wells more in line with the expectations of the MDEQ.

3 March 2001

Saturday

Weather: 28° F and fair conditions

WESTON oversight not present - the following information was obtained from
discussions with ARCADIS personnel on March 4, 2001.

4 March 2001

Sunday

Weather: 33° F and fair conditions

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Jennifer Groth	ARCADIS	Scientist II
Mike Mueller	Boart Longyear	Driller
Randy Radke	Boart Longyear	Driller
Kevin Weise	Boart Longyear	Drillers Helper
Royce Brown	Boart Longyear	Drillers Helper
Jason Drabek	Boart Longyear	Drillers Helper

On 4 March 2001, ARCADIS, WESTON and Boart Longyear personnel were on site. WESTON noted no deviations from the Work Plan or HASP.

Active tasks for the day included well development activities.

WESTON was able to contact Kim Eichler at around 11:40 AM and obtain a signature on the access agreement. WESTON transfers the signed access agreement to John Keeler of ARCADIS. John informs WESTON that the wells MW33 S/I will be drilled the following day.

Additional site concerns:

None.

Personnel on site included:

<u>Name</u>	<u>Affiliation</u>	<u>Title</u>
John Keeler (field team leader)	ARCADIS	Scientist II
Dave Buser	ARCADIS	Scientist II
Randy Radke	Boart Longyear	Driller
Jason Drabek	Boart Longyear	Drillers Helper

On 6 March 2001, ARCADIS, WESTON and Boart Longyear personnel were on site. No deviations from the Work Plan were identified when oversight was present.

The day's activities included well development. ARCADIS plans to suspend development activities until Monday, 12 March 2001. WESTON discusses schedule with ARCADIS.

Additional site concerns:

None

PHOTODOCUMENTATION



Area where ATV drill rig was stuck in eastern lagoon.



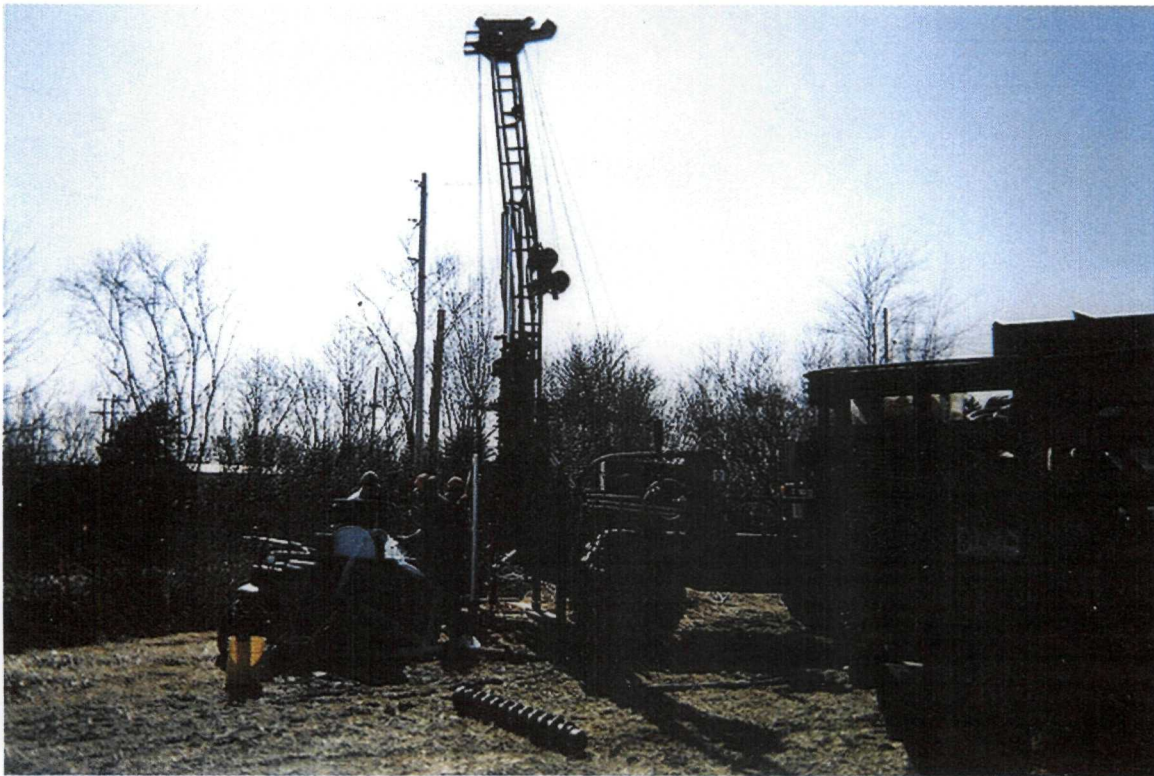
Discoloration of eastern lagoon sediments in area where ATV drill rig was stuck.



Installation of MW32 S/I at western lagoons.



Western lagoon.



Monitoring well installation (MW-29) at western lagoons.



Well development at MW34 S/I at eastern lagoons.



Well abandonment of MW-3 at western lagoons.



Well development of MW17 S/D at eastern lagoons



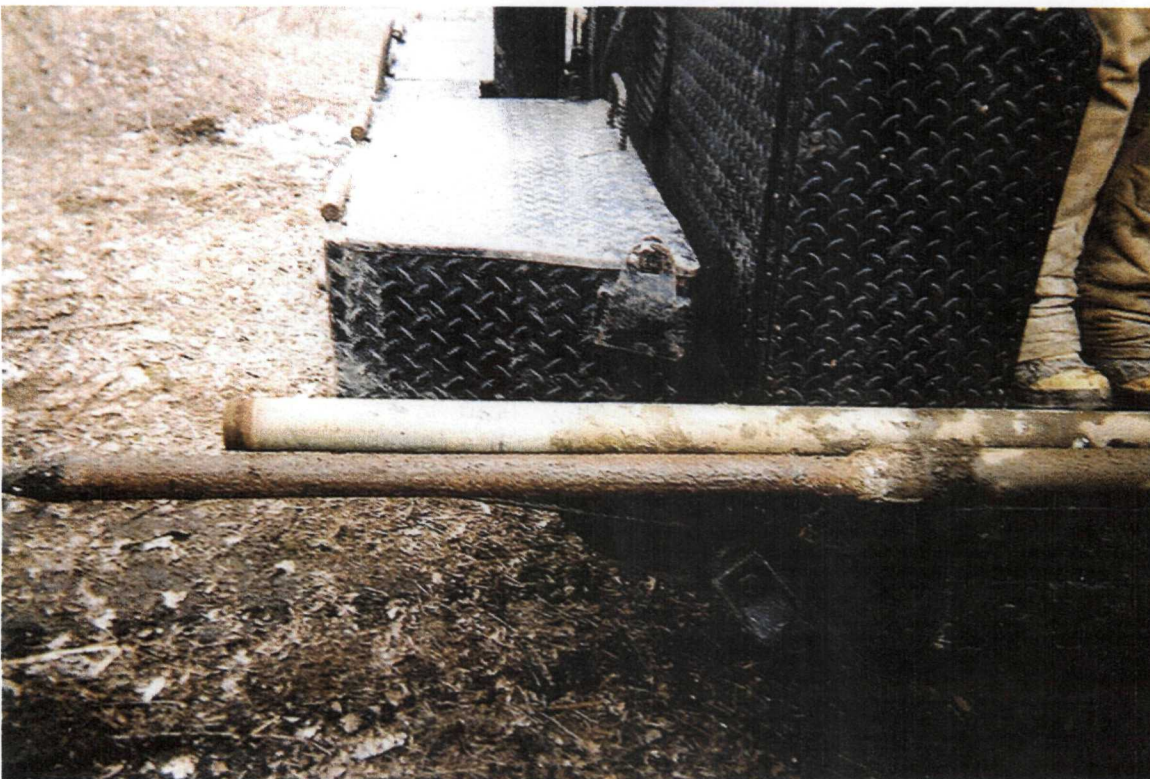
Decontamination of ATV drill rig.



ATV drill rig on decontamination pad.



Decontamination pad at western lagoons.



Abandoned monitoring well MW-3 at western lagoons.

FIELD LOG

NORTH BRUNSON INDUSTRIAL
FIELD INSPECTION
LOG RECORD

20064-031-100-3010

RECORD

4-450-506

National

56 521

200



AVERY[®]

White Paper

Made in U.S.A.

200 PAGE 9 5/8" X 6 1/4"

RECORD BOOK





ARCADIS GERAGHTY & MILLER

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* SITE NOTES & CONTACT INFO *

PHONE #S

RICK S. CELL - 847-204-9892
WORK - 847-918-4088

USEPA

ROSITA CARLLE - 312.886.7251

DAN BRILLER (ARCADIS) 414-276-7742

JOHN KELLER (ARCADIS) CELL 414 339-0541

CHUCK GRAFF - 517-930-3073

DAVE ORRLEE

191 S. MATTHESON

* SITE CONTACT INFO *

WESTON

ERIC A. CHATTERSON
HYDROGEOLOGIST

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BRONSON INDUSTRIAL AREA

TUESDAY

27-FEB-01

280 F

ERIC CHATTERSON

FAIR

0730

ARRIVE @ SITE - ARCADIS-CONSTRUCTION
& BOART LONGYEAR (DRILLERS) ALSO ON-SITE
SITE IS: WASTE WATER TREATMENT
PLANT

BOART LONGYEAR IS

(K.W.) KEVIN WEISE - HELPER
(R.B.) ROYLE BROWN - HELPER
(M.M.) MIKE MUELLER - DRILLER
(R.R.) RANDY RADEE - DRILLER
(J.D.) JASON DRABEK - HELPER

ARCADIS IS

(J.K.) JOHN FELDER - GEOLOGIST-SUPERVISOR
(D.B.) DAVE BUSER - SCIENTIST II
(J.G.) JENNIFER GROTH - SCIENTIST II

0750

HEALTH & SAFETY MEETING ON
AIR MONITORING EQUIPMENT
GENERAL SAFETY, ETC.

ACTION LEVEL 710 PPM ON OWN

0830

CALIBRATE AIR MONITORING EQUIPMENT
CGI/O₂ - CAR TO 50% LER PENNANE
OVA - CAR 700 100 PPM METHANE

0920

MOEQ ARRIVES
(C.F.) CHUCK GRAFF -

1000

SECOND PERSON FROM MOEQ ARRIVES

1100

(J.W.) JOSEPH WARCZAK

1330

SPENT TO STAN WELCH - PRESIDENT
OF BRONSON PLATING
JOHN K. INSURING MW 29
(MW6-REPLACEMENT) WATER @ 25'
SITE CAR @ 6.5'

1410

DAVE B INSTALLING SAIL BORING
ON NW CORNER OF SOUTHERN
LAGOON (EAST CAVEON)
* WELLS INSTALLED BY JOHN KEEHL
MW-29 TOTAL DEPTH 6.5'
SCREEN 3.5' - 6.5' bgs
SAND 2.5' - 6.5' bgs
CONCRETE TO SURFACE
MW 32S EDB 8'
SCREEN 3-8' bgs
SAND 2.5-8' bgs
BENTONITE 20-25' bgs
CONCRETE TO SURFACE
MW 32 I/S EDB 16' (SS)
SCREEN 9-12' bgs
SAND 8-12' bgs
BENTONITE 2-7' bgs
CONCRETE TO SURFACE
* BORINGS INSTALLED BY DAVE BUSICK
AGM-SB4 & AGM-SB2

E. OLS
2-27-01

WEDNESDAY
28-FEB-01 28°F
ERIC CHATTERSON
* - NOT ON SITE, NOTES
FROM DISCUSSIONS WITH
MDEQ & ARCADIS (3-01-01)

ON SITE
MDEQ
CHARLES GAFF
TOESHA WALZAK
ARCADIS
JOHN K.
JENNIFER G.
DAVE B.

BORINGS INSTALLED
AGM-SB-8
AGM-SB-9
AGM-SB-10

WELLS INSTALLED
MW-30
SCREEN 11' 3-13' LGS & 4' bgs
* MDEQ OBJECTS TO 10' SCREEN WANTS 5' SCREEN
MW-34S
MW-34I

E. OLS
2-28-01
3-1-01

THURSDAY

1-MAR-01

ERIC CHATTERSON

ARLUE IN BRANSON

1200

ON SITE IS

JOHN FELLEL

ARCADIS

JENNIFER GROTH

ARCADIS

DAVE BUSSE

ARCADIS

JOE WALCZAK

MOEQ

BOAT LONGER PERMITS

- DISCUSS ISSUES & DAYS
ACTIVITIES WITH JOHN FELLEL
ISSUES:

A ACCESS FOR MW-31
THE FARMER WHO OWNS LAND
DOES NOT WANT WELLS IN
HIS FIELD - HE IS OK
WITH IT BEING AS PLACED
@ THE EDGE OF HIS FIELD
A ACCESS WERE NEST
MW 33 S/1 - THE NEST
IS LOCATED ON COUNTY
PROPERTY, HOWEVER THE LAND
OWNER HAS DENIED ACCESS
TO DRIVE TO IT.

A DRILL RIG STUCK IN
BOTTOM OF SOUTHERN MOST
EASTERN CANYON IN THE
MORNING - UPON GETTING IT
JACKED IT WAS TRANSPORTED
VIA SEMI TO WESTERN
CANYON AREA FOR "DOWN" WITH

1235- DEZON ON DRILL RIG COMPLETE

1330 - JOHN FELLEL DRIVING MW 33 S/1

Q. EASTERN CANYON AREA

KIM EICHLER

517-369-9045

220 N. MATTHEWS LE RD.

HAVE DISCUSSION WITH KIM
EICHLER ABOUT PERMISSION TO
INSTALL MW 33 S/1 - AFTER
TALKING WITH HIM, HE
GIVES PERMISSION -

TALK TO AD SITA CLARKE &
INFORM HER THAT MR EICHLER
HAS GIVEN PERMISSION - SHE
PLANS TO FAX PERMISSION
FORM TO CITY OFFICES
TOMORROW

MW-30

HAVE DISCUSSION WITH

CHARLES GRAFF (G) ABOUT INSTALLATION

OF MW-30. CG WAS UNHAPPY

ABOUT THE USE OF A 10' SCREEN.

HE RECOMMENDED TO ARCADIS THAT

A 5' SCREEN BE USED, THEY

HOWEVER, CHOOSE TO FOLLOW THE

WORK PLAN & USED A 10' SCREEN.

I INFORM CG THAT I'LL HAVE

A DISCUSSION WITH ARCADIS

EXPLAINING THEIR ABILITY TO

MAKE AN EDUCATED FIELD DECISION

IN ~~CERTAIN~~ ^{CERTAIN} CIRCUMSTANCES & DERIVE

FROM THE WORK PLAN IF

TER. AB. COMMUNICATIONS "LOCATE IT"

15 APPROPRIATE

WELLS INSTALLED 3-01-01

MW 35-5

MW 35-1

MW 35 SITE INSTALLED FURTHER

SOUTH OF LOCATION SHOWN ON MAP

BORINGS INSTALLED

AGM-SB-6

AGM-SB-5

AGM-SB-3

AGM-SB-1

END OF DAY - RETURN WORK
PLAN PROCEDURES ON WEEK
DEVELOPMENT.

1700

FRIDAY

2-MARCH-01

ERIC CHATERS

ARRIVE @ SITE

ONSITE IS

ARCADIS

JOHN K. (J.K.)

DAVE B. (D.B.)

EMILIO G. (E.G.)

BOAT LINGER

2-DRILLERS 3 HEADERS (SAME AS 2-25-01)

TAKE 3 HANO SAMPLES FROM

VALLEY/DRAIN & HAVE MOED

SCREEN W/ XRF. - METERS LEADS

ARE MODERATELY HIGH (I.C. CR=2000)

ATTEMPT TO CONTACT FIRM ERECTOR -

HE'S NOT HOME

ATTEMPT 2ND TIME TO CONTACT

FIRM ERECTOR - HIS TRUCK IS NOW

IN THE DRIVWAY, HOWEVER HE

DOES NOT ANSWER THE DOOR OR

PHONE?

LEAVE SITE

TALK TO CHUCK GRAFF (MOED)

HE IS UNHAPPY ABOUT THE

POOR WELL DEVELOPMENT BY

ARCADIS - I ~~THAT~~ MAINLY THE

LACK OF SIGHTING. I INFORM

HIM THAT I'LL CONTACT

ARCADIS AND DISCUSS THE

OBSTACLES OF WELL DEVELOPMENT

AND THE PROCEDURES BEING

USED.

1300

1630

2-01
3-1-01

330F
FAIL

MICHAEL HARRIS (MOED)
CHAD ROGERS (MOED)
CHUCK GRAFF (MOED) ON-TIRE
@ ~ 1030

1015

1100

1200

1300

1630

1700

DISCUSS WITH JOHN KEEZER
(ARCADIS) THE PROPER PRODUCE
FOR WELL DEVELOPMENT & THE
NEED TO SOLVE MULTIPLE ISSUES
BETWEEN PUMPING. HE AGREES
DATES THAT HE WILL SOLVE
THE WELL MORE OFTEN &
WILL ATTEMPT TO DISCOVER AS
MANY FINE PARTICLES AS POSSIBLE

WELLS ABANDONED
ALL SIX SCHEDULED FOR
ABANDONMENT MW1-MW6
SEDIMENT SAMPLES TAKEN
SD 25

SD 26
SD 27

BORINGS INSTALLED

AGM-587

MONITORING WELLS INSTALLED
MW-31

3-2-01

SADROCK

3-MARCH

ERIC CHATTERSON

NOT ON SITE - INFORMATION
OBTAINED FROM DISCUSSIONS
WITH ARCADIS (JOHN KEEZER).
SEDIMENT SAMPLES TAKEN

SD-18

SD-19

SD-20

SD-21

SD-22

SD-23

SD-24

3-4-01

450P
FAIR

SUNDAY
ERIC CHATTERSON
4-MARCH-01

330F
FAIR

1130 ON SITE W
BOAT (MOTOR (2 DRIVERS & 3 PASSENGERS)
ALCANTAS

J.K.
J.G.
D.B.

1140 GET FOR ALCANTAS AGREEMENT
SIGNED BY LIA EICKHART &
GIVE TO JOHN KELLER
LUNCH

1200
1245 ALCANTAS CONTINUING WELL
DEVELOPMENT

1330 DISCUSS SCHEDULE & AGREEMENT
WITH ALCANTAS AS WELL AS
OTHER CONCERNS
1345 OFF SITE

Eric
3-4-01

13

MONDAY
ERIC CHATTERSON
5-MARCH-01

300F
FAIR

- NOT ON SITE - INFORMATION
FROM DISCUSSIONS WITH
ALCANTAS & CHUCK GRAFF (ADEQ)
WELLS INSPECTED:

MW33 S
MW33 I

~~STATEMENT SAMPLES TAKEN~~

Eric
3-6-01

TUESDAY

6-MARCH-01
ERIC CHATTELSON

310F
FAR

1400

ON SITE W/

BOAT LIFTING 1 DRIVER 1 DRIVER

J.K. (ARCADIS)

O.B. (ARCADIS)

ARCADIS DEVELOPING ~~4400~~ 510

1530

DISCUSS BATHING METHODS

SUGGEST TRYING 2 RIGID ROD
FOR THE SURGE BLOCK TO

INCREASE POSITIVE PRESSURE

WHILE SURGING. J.K. SAYS

HE WILL CONSIDER A RIGID

ROD SYSTEM FOR THE REMAINING

1540

WELLS

TAKE TO (S) RUCK SWARMING WELLS

ABOUT FIELD PROGRESS, CONCERNS,

1600

ETC.

CALL R.S. FOR CONFERENCE

CALL W/ ROSITA - SHE'S

NOT IN SO R.S. LEAVES

A MESSAGE,

OFFSITE AFTER DISCUSSION

ON SCHEDULE WITH ARCADIS

ARCADIS WILL BE ON SITE

MONDAY 3-12-01 (NOB ARE)

BEEN WORK TUESDAY 3-13-01

DON REIER SAYS IT'LL MOVE

A SPUR ROD FOR A SURGE

BLOCK HANDLE ON TUESDAY AS

REQUESTED BY MGR

3-1-01



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15 March 2001

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U.S. EPA Contract No.: 68-W7-0026

Work Assignment No.: 031-ROBE-051C

Document Control Number.: RFW031-2A-AHSJ

Re: Oversight of Work for Pre-Design Studies at North Bronson Industrial Area Site in
Bronson, Branch County, Michigan.

Dear Ms. Clarke:

Roy F. Weston, Inc. (WESTON®) is pleased to submit the two-week oversight report for the North Bronson Industrial Area site in Bronson, Branch County, Michigan. The oversight report is for the period from 27 February through 9 March 2001.

The attached oversight report provides a summary of the daily observations, field logbook entries made by the WESTON® on-site representative, and photodocumentation of field activities.

If you have any questions please call me at 847-918-4088.

Very truly yours,

ROY F. WESTON, INC.

Richard A. Swearingen, P.E.
Site Manager

RAS:sk

